

KING'S UNIVERSITY COLLEGE  
**Analytics and Decision Sciences (ADS) –  
 MODULE CHECKLIST**

(Effective Sep 2024, revised Feb 2024)

Students should note the mathematics requirement for some of the courses in this module.

Minor in Analytics and Decision Sciences	
<p><u>Admissions Requirements:</u>            Completion of first-year requirements including:            1.0 <b>Economics 1021A/B</b> <i>Micro Economics</i> AND <b>Economics 1022A/B</b> <i>Macro Economics</i> with no mark less than 60% *             0.5 from:                <b>Mathematics 1230A/B</b> <i>Calculus for the Social Sciences</i> with no mark less than 70%                <b>Calculus 1000A/B</b> <i>Calculus I</i> with no mark less than 55%             0.5 from:                <b>Mathematics 1229A/B</b> <i>Methods of Matrix Algebra</i> with no mark less than 70%                <b>Mathematics 1600A/B</b> <i>Linear Algebra I</i> with no mark less than 55%             0.5 <b>MOS 1033A/B</b> <i>Information Technology in the Commercial Environment</i> and            1.0 <b>Psychology 1000</b> or <b>1000W/X</b> <i>Intro to Psychology</i> with no mark less than 60%.   <i>Students who fail to meet the 60% in Economics 1021A/B and Economics 1022A/B, or the former Economics 1020 may take a Minor module if they have a mark of at least 60% in each of Economics 2150A/B or Econ 2260A/B and Economics 2152A/B or Econ 2220A/B.</i>   <b>MOS 1033A/B and/or Psychology 1000 or 1000W/X may be completed in Year 2.</b>   <u>Module: (4.5 courses)</u>            1.0 courses from (normally taken in second year):                <b>ADS 2036A/B</b> <i>Predictive Analytics</i>                <b>Econ 2222A/B</b> <i>Econometrics I</i>                <b>Econ 2223A/B</b> <i>Econometrics II</i>             1.5 courses                <b>ADS 2288F/G</b> <i>Intro to Programming and Basic Data Analysis</i>                <b>ADS 2298A/B</b> <i>Introduction to Analytics and Decision Science</i>                <b>ADS 3864A/B</b> <i>Data Visualization and Statistical Analysis</i>             0.5 course                <b>Philosophy 2293A/B</b> <i>Conditions for Analytical Thinking and Decision Making</i>             0.5 course                <b>Psychology 2135A/B</b> <i>Cognitive Psychology</i>                <b>Psychology 2221A/B</b> <i>Intro to Biological Basis for Behaviour</i>                <b>Psychology 2840F/G</b> <i>Research Methods in Psychology</i>                <b>Psychology 2990A/B</b> <i>Applications of Psychology</i>             1.0 course from                <b>ADS 3293A/B</b> <i>Risk and Simulation</i>                <b>ADS 4293F/G</b> <i>Professional Analytics*</i>                <b>ADS 4294F/G</b> <i>Analytics Consulting Project</i>                <b>Economics 3386A/B</b> <i>Time Series Analysis and Forecasting</i>  <b>Up to 0.5 course from any ADS Special Topics course numbered 3000 level or above</b>             *Students who wish to obtain the CORS Diploma must take ADS 4293F/G.             Statistics 2035 may be substituted for Economics 2222A/B and ADS 2036A/B if completed prior to Fall 2024   <b>Note: Other courses as approved by the Department may be substituted. Please consult the Department for more information.</b></p>	<p style="text-align: center;"><b>Careers Aligned with Analytics and Decision Sciences</b></p> <p>Job alignment (depending on modular combinations)</p> <ul style="list-style-type: none"> <li>• Business Analyst</li> <li>• Sports Analytics</li> <li>• Healthcare Data Analyst</li> <li>• Operations Analyst</li> <li>• Digital Marketing Management</li> <li>• Transportation Logistics Management</li> <li>• Financial Analyst</li> <li>• Market Research</li> <li>• Process Improvement Analyst</li> <li>• Forecasting/Planning Analyst</li> <li>• Business Intelligence Analyst</li> <li>• Election/Campaign Analyst</li> <li>• Resource Planning Analyst</li> <li>• Public Policy Analyst</li> </ul> <p style="text-align: center;"><b>Sample Modular Combinations</b></p> <ul style="list-style-type: none"> <li>• BMOS Accounting with ADS</li> <li>• BMOS Global Commerce with ADS</li> <li>• BMOS Finance and Administration with ADS</li> <li>• BMOS Organizational and Human Resources with ADS</li> <li>• BA Finance with ADS</li> <li>• BA Economics with ADS</li> <li>• BA Political Science with ADS</li> <li>• BA Sociology with ADS</li> <li>• BA Philosophy with ADS</li> <li>• BA Psychology with ADS</li> <li>• BA History with ADS</li> </ul> <p>Note:            Students are responsible for the accuracy and completeness of their program.</p> <p><b>Progression and graduation requirements:</b>  <a href="#">Policies-registration, progression, graduation</a></p>